Validated Data for SDG's 87, 90, and 92 of the Camp Edwards Impact Area Groundwater Study

Massachusetts Military Reservation Cape Cod, Massachusetts

Ogden Environmental and Energy Services September 1998



VALIDATED DATA FOR SDGs 87, 90, AND 92

OF THE CAMP EDWARDS IMPACT AREA GROUNDWATER STUDY

MASSACHUSETTS MILITARY RESERVATION CAPE COD, MASSACHUSETTS

Prepared for

NATIONAL GUARD BUREAU ARLINGTON, VIRGINIA

Prepared by

OGDEN ENVIRONMENTAL AND ENERGY SERVICES
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Westford, Massachusetts 01886



QUALIFICATION CODE REFERENCE TABLE

Qualifier	Organics	Inorganics
Н	Holding times were exceeded.	Holding times were exceeded.
· S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
С	Calibration %RSD or %D were noncompliant.	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
В	Presumed contamination from preparation (method) blank.	Presumed contamination from preparation (method) or calibration blank.
L	Not applicable.	Laboratory Control Sample %R were not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
Е	Not applicable.	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
М	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
Т	Presumed contamination from trip blank.	Not applicable.
. +	False positive - reported compound was not present.	Not applicable.
-	False negative - compound was present but not reported.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER.
\$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
Р	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
#	Unusual problems found with the data that have been described in Section 1, "Data Validation Findings." The number following the asterisk () will indicate the subsection where a description of the problem can be found.	Unusual problems found with the data that have been described in Section 1, "Data Validation Findings." The number following the asterisk (*) will indicate the subsection where a description of the problem can be found.

DATA QUALIFIER REFERENCE TABLE

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
ΠΊ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.	The data are unusable. (Note: Analyte may or may not be present).

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EPA NO	OGDEN ID	Date Sampled	Operational Unit	Method Analyte	OM31V (UG/KG)	CHLOROMETHANE	BROMOMETHANE	VINYL CHLORIDE	CHLOROETHANE	METHYLENE CHLORIDE	ACETONE	CARBON DISULFIDE	I, I-DICHLOROETHENE	1,1-DICHLOROETHANE	TOTAL 1,2-DICHLOROETHENE	CHLOROFORM	1,2-DICHLOROETHANE	METHYL ETHYL KETONE (2-BU	1,1,1-TRICHLOROETHANE	CARBON TETRACHLORIDE	BROMODICHLOROMETHANE	1,2-DICHLOROPROPANE	CIS-1,3-DICHLOROPROPENE	IRICHLOROETHYLENE (TCE)	DIBROMOCHLOROMETHANE	1,1,2-TRICHLOROETHANE	BENZENE	TRANS-1,3-DICHLOROPROPEN	BROMOFORM	METHYL ISOBUTYL KETONE (4
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NO	OGDEN ID	Date Sampled	Operational Unit	fethod Analyte	OM31V (UG/KG)	CHLOROMETHANE	BROMOMETHANE	VINYL CHLORIDE	CHLOROETHANE	METHYLENE CHLORIDE	ACETONE	CARBON DISULFIDE	1,1-DICHLOROETHENE	1,1-DICHLOROETHANE	TAL	CHLOROFORM	1,2-DICHLOROETHANE	ETHY	1,1,1-TRICHLOROETHANE	CARBON TETRACHLORIDE	OMC	1,2-DICHLOROPROPANE	CIS-1,3-DICHLOROPROPENE	TRICHLOROETHYLENE (TCE)	DIBROMOCHLOROMETHANE	1,1,2-TRICHLOROETHANE	BENZENE	ANS	BROMOFORM	THI
EPA NO	OGD	Date	Oper	Method Analyt	ОМЗ	CH	BR	V	CH	M	AC	CA	1,1	1,1	TO	CH	1,2	M	1,1	CA	BR	1,2	CI	TR	DII	1,1	BE	TR	BR	M

Volatiles, Soil

					ES Technical Information Systems RGEN Ver. 2q
B05FBA	B05FBAa	7/2/98	AREA 05 1.5-2'	ANALYTICAL LAB REV QUAL RESULT QUAL QUAL CODE	11.00 U 11.00 U
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EPA NO	OGDEN ID	Date Sampled	Operational Unit	Method Analyte	OM31V (UG/KG) Continued 2-HEXANONE TETRACHLOROETHYLENE(PCE 1,1,2,2-TETRACHLOROETHANE TOLUENE CHLOROBENZENE STYRENE XYLENES, TOTAL

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B05JBA	ВО5ЛВАа	86	AREA 05 1.5-2	ANALYTICAL		12.0	12.0	12.0	12.00	12.00	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.00 U	12.00 U	12.00 U	12.0	12.0	12.0	12.0	12.00 U
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EPA NO	OGDEN ID	Date Sampled	Operational Unit	fethod Analyte	OM31V (UG/KG)	CHLOROMETHANE	BROMOMETHANE	VINYL CHLORIDE	CHLOROETHANE	METHYLENE CHLORIDE	ACETONE	CARBON DISULFIDE	1,1-DICHLOROETHENE	1,1-DICHLOROETHANE	FOTAL 1,2-DICHLOROETHENE	CHLOROFORM	1,2-DICHLOROETHANE	METHYL ETHYL KETONE (2-BU	1,1,1-TRICHLOROETHANE	CARBON TETRACHLORIDE	BROMODICHLOROMETHANE	1,2-DICHLOROPROPANE	CIS-1,3-DICHLOROPROPENE	TRICHLOROETHYLENE (TCE)	DIBROMOCHILOROMETHANE	1,1,2-TRICHLOROETHANE	BENZENE	TRANS-1,3-DICHLOROPROPEN	BROMOFORM	METHYL ISOBUTYL KETONE (4
EPA	OGI	Date	Ope	Method Analyt	ОМ.	CI	BI	5	CI	Z	AC	C	1,	1,	TC	C	1,1	Z	1,	2	BF	1,7	C	TA	DI	1,1	BE	TA	BŁ	Z

MMR LABORATORY DATA

					vuceal Information Systems ROEN Vet. 2q
B05KBA	B05KBAa	7/2/98	AREA 05 1.5-2'	ANALYTICAL LAB REV QUAL RESULT QUAL QUAL CODE	12.00 U U 12.00 U U 12.00 U U U
BOSJBA	B05JBAa	7/2/98	AREA 05 1.5-2'	ANALYTICAL LAB REV QUAL RESULT QUAL QUAL CODE	12.00 U U 12.00 U U 12.00 U U U U 12.00 U U U U 12.00 U U U U U U U U U U U U U U U U U U
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BOSFBARE	B05FBAa			ANALYTICAL LAB REV QUAL RESULT QUAL CODE	11.00 U U U U U U U U U U U U U U U U U U
EPA NO B	OGDEN ID B	Date Sampled	Operational Unit	Method Analyte	OM31V (UGKG) Continued 2-HEXANONE TETRACHLOROETHYLENE(PCE 1,1,2,2-TETRACHLOROETHANE TOLUENE CHLOROBENZENE ETHYLBENZENE STYRENE XYLENES, TOTAL

EPA NO	B05LBA	B05MBA	B05NBA	BOSPBA	6
OGDEN ID	B05LBAa	B05MBAa	B05NBAa	ВО517ВАа	
Date Sampled	7/2/98	7/2/98	7/2/98	7/2/98	
Operational Unit	AREA 05 1.5-2'	AREA 05 1.5-2'	AREA 05 1.5-2'	AREA 05 1.5-2'	
Method Analyte	ANALYTICAL LAB REV QUAL RESULT QUAL QUAL CODE	ANALYTICAL LAB REV QUAL RESULT QUAL QUAL CODE	ANALYTICAL LAB REV QUAL RESULT QUAL QUAL CODE	ANALYTICAL LAB REV QUAL RESULT QUAL QUAL CODE	ANALYTICAL LAB REV QUAL RESULT QUAL QUAL CODE
OM31V (UG/KG)					
CHLOROMETHANE	U 00.11	11.00 U	U 00.00	11.00 U	
BROMOMETHANE	U D 00 II	U 00 U	10.00 U	11.00 U	
VINYL CHLORIDE	U U 00.11	U 000.11	U 00:001	U 00 U	
CHLOROETHIANE	11.00 U UJ C	11.00 U UJ C	10.00 U UJ C	11.00 U UJ C	
METHYLENE CHLORIDE	U 00.11	U 00 U	U 00.001	11.00 U	
ACETONE	11.00 U UJ C	11.00 U UJ C	10.00 U UJ C	11.00 U UJ C	
CARBON DISULFIDE	U U 00.11	U 00 U	10.00 U	11.00 U	
1,1-DICHLOROETHENE	U U 00.11	U U 00 II	10.00 U	11.00 U	
1,1-DICHLOROETHANE	11.00 U	11.00 U	U 00.00	U 00 U	
TOTAL 1,2-DICHLOROETHENE	U 00.11	U 00.11	U 00.001	11.00 U	
CHLOROFORM	11.00 U	U 00.11	U 00.001	11.00 U	
1,2-DICHLOROETHANE	U U 00.11	U 00.11	U 00001	11.00 U	
METHYL ETHYL KETONE (2-BU	11.00 U UJ C	11.00 U UJ C	10.00 U UJ C	11.00 U UJ C	
1,1,1-TRICHLOROETHANE	U U 00.11	U U 00 U	U 00:00	11.00 U	
CARBON TETRACIILORIDE	11.00 U	U D 00.11	U 00.00	U 00011	
BROMODICHLOROMETTIANE	U 00 01	U U 00.11	U 00.001	U 00 U	
1,2-DICHLOROPROPANE	11.00 U	U U 00 U	U 00.001	U 00 U	by
CIS-1,3-DICHLOROPROPENE	U U 00.11	11.00 U	U 00.001	11.00 U	Ver
TRICHLOROETHYLENE (TCE)	U 0 0.11	U U 00 U	U 00:00 U	U 00 U	ОЕИ
DIBROMOCHLOROMETHANE	11.00 U	U 00 U	U 00:00	11.00 U	A ema
1,1,2-TRICHLOROETHANE	U U 00.11	U U 00 U	U 00:00	11.00 U	n syan
BENZENE	11.00 U	U U 00 U	U 00001	U 00 U	negroup
TRANS-1,3-DICHLOROPROPEN	11.00 U	11.00 U	10.00 U	11.00 U	molni
BROMOFORM	11.00 U	11.00 U	U 00.001	11.00 U	nace
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MMR LABORATORY DATA

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9	HIN	amp	tiona	nd yte_	M31V (UGKG) 2-HEXANONE TETRACHLOR 1,1,2,2-TETRA TOLUENE CHLOROBENZE STYRENE XYLENES, TO
EPA NO	OGDEN ID	Date Sampled	Operational Unit	Method Analyte	МЯЗ 2-Н 1,1,1, 1,1,1, 1,1,1,1, 1,1,1,1,1,1,1,1
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Metals and Wet Chemistry, Soil MMR LABORATORY DATA

EPA NO	BCSPAA	6	6	ė.	
OGDEN ID	BCSPAA				
Date Sampled	86/9/8				
Operational Unit	AREA 05 0-0.5'				
Method Analyte	ANALYTICAL LAB REV QUAL RESULT QUAL QUAL CODE	ANALYTICAL LAB REV QUAL RESULT QUAL QUAL CODE	ANALYTICAL LAB REV QUAL RESULT QUAL QUAL CODE	ANALYTICAL LAB REV QUAL RESULT QUAL QUAL CODE	ANALYTICAL LAB REV QUAL RESULT QUAL CODE
350.2M (MG/KG)					
NITROGEN, AMMONIA (AS N)	4.70 J *2				
353.2M (MG/KG)					
NITRATE/NITRITE (AS N)	0.64				
PHOSPHORUS, TOTAL ORTHOP	101.00				
IM40HG (MG/KG)					
MERCURY	0.06 B J *10				
IM40MB (MG/KG)					
ALUMINUM	13000.00				
ANTIMONY	1.90 U				
ARSENIC	1.30 U UJ *2				
BARIUM	69.50				
BERYLLIUM	0.15 B				
CADMIUM	1.80				
CALCIUM	285.00 B				
CHROMIUM, TOTAL	29.10				
COBALT	4.50 B				
COPPER	1080.00				
IRON	39700.00				
LEAD	09.66				
MAGNESIUM	1620.00				
MANGANESE	408.00				
NICKEL	28.50				
POTASSIUM	178.00 B				
SELENIUM	0.82 U UJ I,*2				
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Metals and Wet Chemistry, Soil

MMR LABORATORY DATA

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Explosives, Water

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EPA NO	OGDEN ID	Date Sampled	Operational Unit	fethod Analyte_	8330N (UG/L) OCTAHYDRO-1,3,5,7-TETRANII	HEXAHYDRO-1,3,5-TRINITRO-1	1,3,5-TRINITROBENZENE	,3-DINITROBENZENE	TETRYL	NITROBENZENE	2,4,6-TRINITROTOLUENE	4-AMINO-2,6-DINITROTOLUENE	2-AMINO-4,6-DINITROTOLUENE	2,6-DINITROTOLUENE	2,4-DINITROTOLUENE	PICRIC ACID	2-NITROTOLUENE	4-NITROTOLUENE	3-NITROTOLUENE	2,6-DIAMINO-4-NITROTOLUENE	2,4-DIAMINO-6-NITROTOLUENE	PENTAER YTHRITOL TETRANIT	NITROGL YCERIN
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Explosives, Water

MMR LABORATORY DATA

AREA 0 98-103' ANALYTICAL LA RESULT QU	ALYTICAL ALYTICAL RESULT 16.00 63.00		O3' CU U U U U	03' R R R R R R R R R R	03'	03' LAB REV QU QUAL QUAL CO U U U U U U U U U U U U U U	03' IAB REV QUAL COD R D U U U U U U U U U U U U U	03' LAB REV QUAL QUAL CODE R D U U U U U U U U U U U U U U	A A QUAL O	03' A	03' IAB REV GUAL CODE R D U U U U U U U U U U U U U U
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For Reference

Not to be taken from this room

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